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| 09/977,774      | 10/15/2001  | Hal Pringle          | DKT 01096 (BWI-00073) | 3759             |

7590 08/28/2003

BORGWARNER INC. PATENT DEPARTMENT  
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EXAMINER

MCANULTY, TIMOTHY P

|          |              |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

3682

DATE MAILED: 08/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/977,774

Applicant(s)

PRINGLE ET AL.

Examiner

Timothy P McAnulty

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 13 June 2003 is: a) ☐ approved b) ☒ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The corrected or substitute drawings were received on 13 June 2003. Of these drawings, corrected Figure 1 is not approved and corrected Figure 2 is approved. Regarding figure 1, as now shown, reference numerals 19A and 19B are directed to the same openings as are reference numerals 20 and 22. In the first paragraph on page 4 of the specification, reference numerals 20 and 22 designate the "at least one intake port 20, and may include a second port 22, for receiving fluid from the reservoir." The two openings shown in figure 1 cannot both be intake and outlet ports.

### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The operation of the exit port of the pump chamber is not understood. Although the specification has been amended to include recitation of outlet porting on page 3 at lines 14-22, on page 4 at lines 1-3, the reference is made to at least one intake and may include a second port "for receiving fluid from the reservoir," i.e. one possibly two inlet ports. As shown in the amended drawings, reference numerals 19A and 19B designating intake or outlet porting have been shown to indicate the same openings which were originally designated by reference numerals 20 and 22 which are intake

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ports. Furthermore, it is not understood how both the intake and the outlet porting can be on the same side of the pump element, i.e. both on the upstream side or both on the downstream side of the pump element. Such an orientation does not allow for a pressure differential to be established by the pump element between the intake and outlet porting.

***Claim Rejections - 35 USC § 103***

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
5. Claims 1-22 as best understood are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al. in view of Ford, Jr. et al.

Fischer et al. discloses in figure 1 a submerged pump assembly mounted within an engine reservoir comprising a pump housing; a pump element; an electric motor; a pumping chamber; an intake port; an exit port; a wall separating said motor from said pump which includes an opening communicating said pumping chamber and said motor; and a port plate. Fischer et al. does not disclose at least one of said intake or exit port connecting to porting in a surface of a component to which the pump assembly is attached. However, Ford, Jr. et al. teaches in figure 2, a pump assembly attached to an engine comprising a pump element located within a pump chamber wherein said engine has porting 34,36 located therein which connects to said pump via said pump chamber. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Fischer et al. in view of the teachings of Ford, Jr. et al. to attach the pump assembly directly to porting in a component to utilize existing fluid porting and thereby eliminating the need for additional external porting and thus simplify the pump assembly.

*Response to Arguments*

6. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection. Although Zepp et al. may not disclose a submerged pump structure, however, Fischer et al. does disclose such a structure.

*Conclusion*

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art regarding pumps in general:

US Patent No. 5,181,837 to Niemiec

US Patent No. 3,746,472 to Rupp

US Patent No. 3,135,213 to Smith et al.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy P McAnulty whose telephone number is 703.308.8684.

The examiner can normally be reached on Monday-Friday (7:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on 703.308.3668. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9326 for regular communications and 703.872.9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.1113.

tpm   
August 24, 2003

  
Thomas R. Harmon  
Primary Examiner